

Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/933,972	
		Filing Date	2001-08-20	
		First Named Inventor	Hawkes, Philip et al.	
		Art Unit	2439	
		Examiner Name	IMITOSKI, MICHAEL J	
Sheet	1	of	15	Attorney Docket No: 010497

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2(a) (known)}			
	001	US4163255	07-31-1979	Pires; H. George et al.	
	002	US4750167	06-07-1988	Meyer; Charles S. et al.	
	003	US4870408	09-26-1989	Zdunek; Kenneth J. et al.	
	004	US4881263	11-14-1989	Herbison; B. J. et al.	
	005	US4901307	02-13-1990	Gilhausen et al.	
	006	US4924513	05-08-1990	Herbison; B. J. et al.	
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	008	US5117457	05-26-1992	Comerford; Liam D. et al.	
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	010	US5159447	10-27-1992	Haskell; Barin G. et al.	
	011	US5253294	10-12-1993	Maurer; Robert E. et al.	
	012	US5257396	10-26-1993	Auld, Jr et al.	
	013	US5325357	06-28-1994	Kimoto; Atsushi et al.	
	014	US5351087	09-27-1994	Christopher; Todd J. et al.	
	015	US5363379	11-08-1994	Eckenrode; Thomas et al.	
	016	US5369784	11-29-1994	Nelson et al.	
	017	US5371794	12-06-1994	Diffie; Whitfield et al.	
	018	US5412655	05-02-1995	Yamada; Kenji et al.	
	019	US5421006	05-30-1995	Jablon; David P. et al.	
	020	US5481613	01-02-1996	Ford; Warwick S. et al.	
	021	US5504773	04-02-1996	Padovani et al.	

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	022	US5513245	04-30-1996	Mizikovsky, Semyon et al.	
	023	US5515441	05-07-1996	Faucher et al.	
	024	US5686963	11-11-1997	Uz; K. Metin et al.	
	025	US5708961	01-13-1998	Hylton; Denny L. et al.	
	026	US5751707	05-12-1998	Voit; Eric A. et al.	
	027	US5751725	05-12-1998	Chen et al.	
	028	US5758291	05-26-1998	Grube et al.	
	029	US5774496	06-30-1998	Butler et al.	
	030	US5778187	07-07-1998	Monteiro; Antonio M. et al.	
	031	US5850444	12-15-1998	Rune et al.	
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	033	US5878141	03-02-1999	Daly; Michael T. et al.	
	034	US5909491	06-01-1999	Luo; Tie et al.	
	035	US5940507	08-17-1999	Cane; David et al.	
	036	US5946316	08-31-1999	Chen; Xiaoliang et al.	
	037	US5956404	09-21-1999	Schneider; Bruce et al.	
	038	US5970072	10-19-1999	Gammethaler, Jr.; Robert Scott et al.	
	039	US5991407	11-23-1999	Murto; Juhani et al.	
	040	US6021124	02-01-2000	Haartsen; Jacobus C. et al.	
	041	US6026165	02-15-2000	Marino; Francis C. et al.	
	042	US6044154	03-28-2000	Kelly; Tadhg et al.	

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	043	US6047395	04-04-2000	Zook; Christopher P. et al.	
	044	US6052812	04-18-2000	Chen; Zongbo et al.	
	045	US6055236	04-25-2000	Nessett; Danny M. et al.	
	046	US6055314	04-25-2000	Spies et al.	
	047	US6097817	08-01-2000	Bilgic et al.	
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	056	US6253326	06-26-2001	Lincke; Scott D. et al.	
	057	US6266420	07-24-2001	Langford; Glenn C. et al.	
	058	US6363480	03-26-2002	Perlman et al.	
	059	US6373829	04-16-2002	Vilmur; Richard Joseph et al.	
	060	US6385200	05-07-2002	Erami; Akihisa et al.	
	061	US6385461	05-07-2002	Raith; Alex Krister et al.	
	062	US6424717	07-23-2002	Pinder et al.	
	063	US6424947	07-23-2002	Tsuria; Yossef et al.	

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		Number-Kind Code ^{2(a) (known)}			
	064	US6449491	09-10-2002	Dailey; Timothy E. et al.	
	065	US6463155	10-08-2002	Akiyama; Koichiro et al.	
	066	US6477377	11-05-2002	Backstrom; Olof Tomas et al.	
	067	US6490259	12-03-2002	Agrawal; Prathima et al.	
	068	US6538996	03-25-2003	West; Julian Wray et al.	
	069	US6560206	05-06-2003	Naden; James M et al.	
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	071	US6574211	06-03-2003	Padovani et al.	
	072	US6598203	07-22-2003	Tang; Benjamin et al.	
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	074	US6601068	07-29-2003	Park et al.	
	075	US6603857	08-05-2003	Batten-Carew; Mark Christopher et al.	
	076	US6606706	08-12-2003	Li; Yunzhou et al.	
	077	US6633979	10-14-2003	Smeets; Bernhard Jan Marie et al.	
	078	US6647000	11-11-2003	Persson; Bengt et al.	
	079	US6680920	01-20-2004	Wan; Yongbing et al.	
	080	US6704368	03-09-2004	Nefedov; Nikolai et al.	
	081	US6704369	03-09-2004	Kawasaki; Naoto et al.	
	082	US6725459	04-20-2004	Bacon; Kinney C. et al.	

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	083	US6735177	05-11-2004	Suzuki; Mitsutaka et al.	
	084	US6751218	06-15-2004	Hagirahim; Hassan et al.	
	085	US6760752	07-06-2004	Liu; Gary G. et al.	
	086	US6763025	07-13-2004	Leatherbury; Ryan M. et al.	
	087	US6766024	07-20-2004	Rix et al.	
	088	US6781999	08-24-2004	Eyuboglu; M. Vedat et al.	
	089	US6788681	09-07-2004	Hurren; Alan J. et al.	
	090	US6798791	09-28-2004	Riazi; Habib et al.	
	091	US6801508	10-05-2004	Lim; Byung Keun et al.	
	092	US6870923	03-22-2005	Yi et al.	
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	095	US6882850	04-19-2005	McConnell et al.	
	096	US6885874	04-26-2005	Grube; Gary W. et al.	
	097	US6895216	05-17-2005	Sato; Hijin et al.	
	098	US6898285	05-24-2005	Hutchings et al.	
	099	US6915272	07-05-2005	Ziliacus; Martin et al.	
	100	US6918035	07-12-2005	Patel; Sarvar et al.	
	101	US6925285	08-02-2005	Kim; Jae-Geun et al.	
	102	US6990680	01-24-2006	Wugofski; Theodore D. et al.	
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	105	US7039180	05-02-2006	Issaa; Michael A. et al.	
	106	US7046672	05-16-2006	Liao; HongBin et al.	
	107	US7058809	06-06-2006	White; Mark Andrew George et al.	
	108	US7072865	07-04-2006	Akiyama; Koichiro et al.	
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	111	US7134019	11-07-2006	Shelest; Art et al.	
	112	US7197072	03-27-2007	Hsu; Kuo-Wei et al.	
	113	US7200230	04-03-2007	Knauff; Christopher L. et al.	
	114	US7209459	04-24-2007	Kangas; Antti et al.	
	115	US7215775	05-08-2007	Noguchi; Tetsuya et al.	
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	117	US7266687	09-04-2007	Sowa; Hans Christopher et al.	
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	119	US7280660	10-09-2007	Saló; Juha et al.	
	120	US7290063	10-30-2007	Kalliokulju; Juha et al.	
	121	US7352868	04-01-2008	Hawkes et al.	
	122	US7376963	05-20-2008	Kato; Taku et al.	
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	125	US20010004761	06-21-2001	Zehavi, Ephraim; et al.	
	126	US20020080887	06-27-2002	Jeong, Young-Ho et al.	
	127	US20020091931	07-11-2002	Quick, Roy Franklin JR et al.	
	128	US20020152384	10-17-2002	Shelest, Art et al.	
	129	US20020154781	10-24-2002	Sowa, Hans Christopher et al.	
	130	US20020169724	11-14-2002	Moroney, Paul; et al.	
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	142	US20040022216	02-05-2004	Shi, Guangming Carl; et al.	
	143	US20040095515	05-20-2004	Tajima, Teruo; et al.	

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Substitute for form 1449/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/933,972
		Filing Date	2001-08-20
		First Named Inventor	Hawkes, Philip et al.
		Art Unit	2439
		Examiner Name	IMITOSKI, MICHAEL J
Sheet	8	of	15
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2(f known)}			
	144	US20040101138	05-27-2004	Revital, Dan et al.	
	145	US20040120527	06-24-2004	Hawkes, Philip Michael et al.	
	146	US20040131185	07-08-2004	Kakumer, Anil K.; et al.	
	147	US20040132402	07-08-2004	Agashe, Parag A.; et al.	
	148	US20040202329	10-14-2004	Jung, Jung-Soo; et al.	
	149	US20040266391	12-30-2004	Hafren, Jonas; et al.	
	150	US20050048963	03-03-2005	Kubler, Joseph J.; et al.	
	151	US20050055551	03-10-2005	Becker, Claudia; et al.	
	152	US20050108563	05-19-2005	Becker, Claudia; et al.	
	153	US20050144550	06-30-2005	Jeon, Ik Beom; et al.	
	154	US20050271210	12-08-2005	Soppera, Andrea; et al.	
	155	US20060168446	07-27-2006	Ahonen; Pasi; et al.	
	156	US20060171540	08-03-2006	Lee; Sung-min; et al.	
	157	US20060242412	10-26-2006	Jung; Bae-eun; et al.	

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	158	EP0636963A2	02-01-1995	IBM [US] et al.		<input type="checkbox"/>
	159	EP0702477A2	03-20-1996	SUN MICROSYSTEMS INC [US] et al.		<input type="checkbox"/>
	160	EP0748058A2	12-11-1996	AT & T CORP [US] et al.		<input type="checkbox"/>
	161	EP0813309A2	12-17-1997	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	162	EP0854618A2	07-22-1998	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	163	EP0924898A1	06-23-1999	INST NAT RECH INF AUTOMAT [FR] et al.		<input type="checkbox"/>
	164	EP0928084A2	07-07-1999	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	165	EP0951198A2	10-20-1999	NEC CORP [JP] et al.		<input type="checkbox"/>
	166	EP1001570A2	05-17-2000	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	167	EP1032150A2	08-30-2000	TRW INC [US] et al.		<input type="checkbox"/>
	168	EP1075123A1	02-07-2001	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	169	EP1098446A2	05-09-2001	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	170	EP1117304A2	07-18-2001	HEWLETT PACKARD CO [US] et al.		<input type="checkbox"/>
	171	EP1135125A1	03-06-2002	NTT DOCOMO INC [JP] et al.		<input type="checkbox"/>
	172	EP1190526A1	3-27-2002	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	173	GB2346512A	08-09-2000	NEC CORP [JP] et al.		<input type="checkbox"/>

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Art Unit	2439
Examiner Name	IMITOSKI, MICHAEL

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	174	JP10063598A	03-06-1998	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	175	JP10200536A	07-31-1998	TOSHIBA CORP et al.		<input type="checkbox"/>
	176	JP11313059A	11-09-1999	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	177	JP11355460A	12-24-1999	MEIDENSHA ELECTRIC MFG CO LTD et al.		<input type="checkbox"/>
	178	JP2000165258A	06-16-2000	YRP IDO TSUSHIN KIBAN GIJUTSU; TOSHIBA CORP et al.		<input type="checkbox"/>
	179	JP2001177513A	06-29-2001	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	180	JP2000137551A	05-16-2000	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	181	RU2073913C1	02-29-1997	KONINKL PHILIPS ELECTRONICS NV [NL] et al.		<input type="checkbox"/>
	182	RU2077113C1	04-10-1997	VOENNAYA AKADEMIYA SVYAZ [KZ] et al.		<input type="checkbox"/>
	183	RU2091983C1	09-27-1997	CHIZHURKHIN GENNADIJ N [SU] et al.		<input type="checkbox"/>
	184	RU2115249C1	07-10-1998	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	185	RU2147792C1	04-20-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	186	RU2187205C2	08-10-2002	SAMSUNG ELECTRONICS CO LTD [KR] et al.		<input type="checkbox"/>
	187	WO0008883A1	02-17-2000	ERICSSON INC [US] et al.		<input type="checkbox"/>
	188	WO0013356A1	03-09-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	189	WO0057601A1	09-28-2000	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>

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		Country Code ³ Number ⁴ Kind Code ² (if known)				
	190	WO0062547A1	10-19-2000	OPENTV INC [US] et al.		<input type="checkbox"/>
	191	WO0076125A1	12-14-2000	NORTEL NETWORKS LTD [CA] et al.		<input type="checkbox"/>
	192	WO0078008A1	12-21-2000	SSH COMM SECURITY LTD [FI] et al.		<input type="checkbox"/>
	193	WO0101630A1	01-04-2001	ERICSSON TELEFON AB L M [SE] et al.		<input type="checkbox"/>
	194	WO02054663A2	07-11-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	195	WO0247407A2	06-13-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	196	WO8607224A1	12-04-1986	SCIENTIFIC ATLANTA [US] et al.		<input type="checkbox"/>
	197	WO9715161A1	04-24-1997	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	198	WO9825422A1	06-11-1998	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	199	WO9959355A2	11-18-1999	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>
	200	WO03063418A1	07-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>
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	201	"Functional Model of a Conditional Access System", EBU Review - Technical European Broadcasting Union, Bussels, BE, No.266; Dec 21, 1995; pgs 64-77; XP000559450.	
	202	"TIA/EIA/IS-95-B Mobile Station-Base Station Compatibility Standard For Dual-Mode Wideband Spread Spectrum Cellular System." (IS-95 STANDARD).	
	203	010497 International Search Report PCT/US02/009835, ISA, EPO, 7/8/02.	
	204	3G TS 25.213 V4.1.0 (2001-06) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Spreading and Modulation (FDD)(Release 4). 3GPP TS 25.211 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels Onto Physical Channels (FDD)(Release 4).	
	205	3GPP TS 25.212 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Multiplexing and Channel Coding (FDD)(Release 4).	
	206	3GPP TS 25.214 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD)(Release 4).	
	207	3GPP2 C.S0002-0 Version 1.0 (1999-07) 3rd Generation Partnership Project 2 "3GPP2" Physical Layer Standard for cdma2000 Spread Spectrum Systems.	
	208	AL-TAWIL, "A New Authentication Protocol for Roaming Users in GSM", Proceedings for IEEE International Symposium on Computers and Communication, 6 July 1999, pp 93-99.	
	209	B.G. MARCHENT et al. "Intelligent Control of Mobile Multimedia Systems" Vehicular Technology Conference 1998. VTC 98, 48th IEEE Ottawa, Canada, May 18-21 1998; New York, USA, May 18, 1998, pages 2047-2051.	
	210	BACCELLI, et al.: "Self Organizing Hierarchical Multicast Trees And Their Optimization," INFOCOM 1999. IEEE, 1081-1089 (21 MARCH 1999).	
	211	BORMANN, et al., "Robust Header Compression (ROHC), Internet Engineering Task Force, IETF Draft, 1-145, Feb. 26, 2001.	
	212	BROWN: "The Electronic Post It Note Model for Mobile Computing Applications," Computing Lab, The University, Canterbury, Kent, The Institution of Electrical Engineers, IEEE, Savoy Place, London, WC2R 0BL, UK.	
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	215	ETSI: "Universal Mobile Telecommunications Systems (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Stage 1, 3GPP TS 22.146 version 5.2.0 Release 5", ETSI TS 22.146 v5.2.0, pages 1-15, 03/2002.	
	216	GONG, L et al: "Trade-Offs In Routing Private Multicast Traffic," Global Telecommunications Conference, 1995. IEEE, 2124-2128 (13 NOV 1995).	
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	219	LIN, et al: "A Multicast Routing Protocol for Multihop Wireless Networks," Dept. of Computer Science and Information Engineering, Chung Cheng University, Taiwan, Global Telecommunications Conference, XP010373304.	
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	224	MIYAZAKI: "A Stream-data Multicast Protocol Using IP Unicast Address" Technical Report of IEICE, IN2001-9, May 11, 2001.	
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	226	MOY, "Multicast Extensions to OSPF," RFC 1584, March 1994.	
	227	PAUL K et al: "A Stability-Based Distributed Routing Mechanism To Support Unicast And Multicast Routing In Ad Hoc Wireless Network" Computer Communications, Elsevier Science Publishers BV, Amsterdam, NL, VOL. 24, NO. 18, 1 DEC 2001, Pages 1828-1845, XP0043	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/933,972	
		Filing Date	2001-08-20	
		First Named Inventor	Hawkes, Philip et al.	
		Art Unit	2439	
		Examiner Name	IMITOSKI, MICHAEL J	
Sheet	14	of	15	Attorney Docket No: 010497

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	229	SCHNEIER, B.: "Applied Cryptography, Conference Key Distribution and Secret Broadcasting" Second Edition, pp. 520, 523-524, John Wiley & Sons, Inc. XP002248263 (1996).	
	229	SCHNEIER, B.: "Applied Cryptography," Second Edition, pp. 170, 171, 173, John Wiley & Sons, Inc. (1996).	
	230	STALLINGS, W.: "Cryptography and network security" 1995, Prentice-Hall, Inc., XP002248261 pgs 402-406, 413-417, 421-424.	
	231	TAKAHASHI: "Prospect of Push type Information Providing Service/Technology," Information Processing, Vol. 39, No. 11, November 15, 1998, p. 1124 - 1131.	
	232	TANENBAUM, ANDREW S.: COMPUTER NETWORKS: SECOND EDITION: PUB 1993 XP2530414.	
	233	TIA/EIA/IS-856 Interim Standard cdma2000 High Rate Packet Data Air Interface Specification (2000-11).	
	234	TIA/EIA/IS-95-A (Revision of TIA/EIA/IS-95) Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System (1995-05).	
	235	TOH C-K et al: "Abam: On-Demand Associativity-Based Multicast Routing For Ad Hoc Mobile Networks," Vehicular Technology Conference, 2000. IEEE, 987-993 (2000).	
	236	WAITZMAN, et al., "The Distance Vector Multicast Routing Protocol (DVMRP)," RFC 1075, Nov. 1, 1998.	
	237	YANG et al: "An Efficient Multicast Delivery Scheme To Support Mobile IP," Database And Expert Systems Applications, 1999. IEEE, 638-88 (1 SEPTEMBER 1999).	
	238	YOU, XIAOHU: "D&B Progress On China's 3G Mobile Communications", Telecom Science, VOL. 2, 2001, Pages 11-17.	

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